

Adopted 11/01/04**TRANSPORTATION ELEMENT**  
**ATTACHMENT 'A'**

Economic development projects and programs involve transportation improvements necessitated by new development that is taking place. Thus, a significant source of local funding for these projects is projected to come from mitigation payments and from specific access needs financed by new development in the City of Renton.

Operations and safety projects and programs are developed through ongoing analyses of the transportation system and are directed mainly toward traffic engineering concerns such as safety and congestion. Projects are identified not only by analysis of traffic counts, accident records and geometric data, but also through review and investigation of citizen complaints and requests.

The City of Renton's adopted ~~2005-2010~~2006-2011 Six-Year Transportation Improvement Program includes many of the transportation improvements and programs identified in the Street Network, Transit, HOV, Non-motorized and Transportation Demand Management Chapters of this Transportation Element. The projects or programs are listed in Table 8.3. Also shown in Table 8.3 are annual programs (transportation system rehabilitation and maintenance, traffic operations and safety; projects and programs, ongoing project development). The following lists various ~~2005-2010~~2006-2011 TIP projects under each of the chapters of the Transportation Element.

TABLE 8.3  
CITY OF RENTON SIX-YEAR TRANSPORTATION IMPROVEMENT  
PROGRAM

(~~2005-2010~~2006-2011)

**Adopted 11/01/04 TRANSPORTATION ELEMENT  
ATTACHMENT 'A'**

Total Project Costs										
TIP	Project Title	Previous Costs	2005	2006	2007	2008	2009	2010	Six-Year Period Total	Total Cost
1	Street Overlay Program	1,050,002	405,000	405,000	405,000	405,000	405,000	405,000	2,430,000	3,480,002
2	SR 167/SW 27th St/Strander Bv	355,174	10,000	10,000	10,000	10,000	10,000	5,000	55,000	410,174
3	Strander Bv/SW 27th St Connect.	1,705,460	800,000			9,394,540	28,000,000	26,500,000	64,694,540	66,400,000
4	SR 169 HOV - 140th to SR900	2,000,392	10,000		55,100	3,680,000	2,350,000		6,095,100	8,095,492
5	Renton Urban Shuttle (RUSH)	20,169	5,000	5,000	5,000	5,000	5,000	5,000	30,000	50,169
6	Transit Program	32,584	20,400	20,400	20,400	20,400	20,400	20,400	122,400	154,984
7	Rainier Av Corridor Study/ Improv.	267,710	20,000	20,000	20,000	261,000	2,964,000	3,165,000	6,450,000	6,717,710
8	NE 3rd/NE 4th Corridor	323,892	315,300	807,500		5,017,000	2,100,000	2,100,000	10,339,800	10,663,692
9	Walkway Program	317,533	236,600	250,000	250,000		250,000	250,000	1,486,600	1,804,133
10	S Lake Wash. Roadway Improv.	1,500,000				1,850,000	14,300,000	23,800,000	39,950,000	41,450,000
11	SR 169 Corridor Study		50,000						50,000	50,000
12	South Renton Project	156,800	18,200			240,000			258,200	415,000
13	I-405 Improvements in Renton	42,186	30,000	20,000	10,000				60,000	102,186
14	Project Development/Predesign	271,363	175,000	175,000	200,000	200,000	200,000	200,000	1,150,000	1,421,363
15	NE 4th St/Hoquiam Av NE	55,100	344,900						344,900	400,000
16	Rainier Av - SW 7th to 4th Pl	80,000	585,000	2,150,000	855,000				3,590,000	3,670,000
17	Benson Rd - S 26th to Main	20,000	459,400	2,500					461,900	481,900
18	Arterial Circulation Program	195,308	200,000	200,000	200,000	200,000	250,000	250,000	1,300,000	1,495,308
19	Bridge Inspection & Repair	120,411	40,000	140,000	40,000	615,000	40,000	30,000	905,000	1,025,411
20	Loop Replacement Program	57,441	20,000	20,000	20,000	20,000	20,000	20,000	120,000	177,441
21	Sign Replacement Program	13,427	7,500	7,500	7,500	7,500	7,500	7,500	45,000	58,427
22	Pole Program	47,974	25,000	48,400	25,000	25,000	25,000	25,000	173,400	221,374
23	Sound Transit HOV Direct Access	46,523	10,000	5,000					15,000	61,523
24	Traffic Safety Program	233,791	80,000	40,000	40,000	40,000	40,000	40,000	280,000	513,791
25	Traffic Efficiency Program	250,505	251,900	114,400	75,000	30,000	30,000	30,000	531,300	781,805
26	CBD Bike & Ped. Connections	25,212	50,000	50,000	10,000	590,000	410,000	5,000	1,115,000	1,140,212
27	Arterial Rehab. Prog.	537,800	195,000	240,000	205,000	340,000	230,000	180,000	1,390,000	1,927,800
28	Duvall Ave NE	667,781	1,259,700	1,692,000					2,950,700	3,618,481
29	Sunset/Duvall Intersection	115,000	381,000						381,000	496,000
30	RR Crossing Safety Prog.	5,198	5,000	5,000	10,000			10,000	30,000	35,198
31	TDM Program	100,670	64,200	64,200	64,200	64,200	64,200	64,200	385,200	485,870
32	Trans Concurrency	1,784	40,000	10,000	40,000	10,000	10,000	30,000	140,000	141,784
33	Missing Links Program	36,350	30,000	30,000	30,000	30,000	30,000	30,000	180,000	216,350
34	GIS Needs Assessment	44,874	35,000	35,000	20,000	20,000	20,000	20,000	150,000	194,874
35	Grady Wy Corridor Study	5,000	35,000	120,000	80,000	230,000	1,810,000	1,020,000	3,295,000	3,300,000
36	Bicycle Route Dev. Program	24,798	20,000	18,000	18,000	110,000	80,000	80,000	326,000	350,798
37	Lake Wash. Bv-Park to Coulon Pk	329,900	79,500		149,100				228,600	558,500
38	Interagency Signal Coord.	26,572	12,000						12,000	38,572
39	Environmental Monitoring	223,711	85,000	75,000	50,000	25,000	25,000	25,000	285,000	508,711
40	Trans-Valley & Soos Creek Corr.	7,300	5,000						5,000	12,300
41	WSDOT Coordination Program	18,857	10,000	10,000	10,000	10,000	10,000	10,000	60,000	78,857
42	1% for the Arts	20,000	50,000	30,000	30,000	50,000	30,000	30,000	220,000	240,000
43	Arterial HOV Program	125,354	10,000	10,000					20,000	145,354
44	Park-Sunset Corridor	7,889	25,000	50,000	390,000	1,691,000	1,059,000		3,215,000	3,222,889
45	Lind Av-SW 16th - SW 43rd	5,000	5,000	5,000		1,914,000	626,000		2,550,000	2,555,000
46	Benson Rd S / S 31st St	138,500	61,500						61,500	200,000
47	Logan Av Concrete Panel Repair					460,000			460,000	460,000
48	Carr/Mill Signal		5,000	10,000	20,000	340,000	400,000	10,000	785,000	785,000
49	Transit Priority Signal System	1,280,315	30,000						30,000	1,310,315
50	Transit Center Video	26,391	10,000						10,000	36,391
51	Houser Wy S - Main to Burnett					810,000			810,000	810,000
52	Trans Valley ITS	50,000	5,000	5,000					10,000	60,000
53	Lake Wash. Bv Slip Plane	629,400	10,600						10,600	640,000
54	Monster Road Bridge	500,000	12,000						12,000	512,000
55	SW 7th St/Lind Ave SW	273,577	26,423						26,423	300,000
56	Duvall Ave NE - King County	547,858	1,311,342	2,810,800					4,122,142	4,670,000
	<b>Total Sources</b>	<b>14,938,836</b>	<b>7,986,465</b>	<b>9,710,700</b>	<b>3,364,300</b>	<b>28,964,640</b>	<b>55,821,100</b>	<b>58,367,100</b>	<b>164,214,305</b>	<b>179,153,141</b>

01/21/2004



**Adopted 11/01/04 TRANSPORTATION ELEMENT  
ATTACHMENT 'A'**

Total Project Costs										
TIP	Project Title	Previous Costs	2006	2007	2008	2009	2010	2011	Six-Year Period Total	Total Cost
1	Street Overlay Program	1,093,500	655,000	405,000	405,000	405,000	405,000	405,000	2,880,000	3,773,500
2	SR 167/SW 27th St/Strander Bv	358,596	10,000	10,000	10,000	10,000	10,000	5,000	55,000	413,596
3	Strander Bv/SW 27th St Connect.	2,491,727	6,369,000	1,750,000		34,174,000	5,748,000		48,041,000	50,532,727
4	Renton Urban Shuttle (RUSH)	6,142	5,000	5,000	5,000	5,000	5,000	5,000	30,000	36,142
5	Transit Program	32,359	20,400	20,400	20,400	20,400	20,400	20,400	122,400	154,759
6	Rainier Av Corridor Study/ Improv.	287,652	20,000	20,000	20,000	20,000	20,000	20,000	120,000	407,652
7	Rainier Av - S 4th Pl to S 2nd	10,000				2,197,000	1,943,000	2,160,000	6,300,000	6,310,000
8	Hardie Av SW Transit/Multi-modal	190,000				2,577,000	6,070,000	6,500,000	15,147,000	15,337,000
9	NE 3rd/NE 4th Corridor	212,147	314,000	394,500	413,000	5,017,000	3,300,000	3,300,000	12,738,500	12,950,647
10	Walkway Program	516,832	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	2,016,832
11	Rainier Av - SW 7th to 4th Pl	323,454	871,000	1,285,000	1,000,000	3,360,000	20,000		6,536,000	6,859,454
12	S Lake Wash. Roadway Improv.	2,050,773	17,507,000	3,432,000			16,950,000		37,889,000	39,939,773
13	South Renton Project	305,000	395,000	75,000					470,000	775,000
14	I-405 Improvements in Renton	72,271	30,000	20,000	10,000	10,000	10,000	10,000	90,000	162,271
15	Project Development/Pre-design	274,708	175,000	175,000	200,000	200,000	200,000	200,000	1,150,000	1,424,708
16	NE 4th St/Hoquiam Av NE	172,200	227,800						227,800	400,000
17	Arterial Circulation Program	324,711	200,000	200,000	200,000	200,000	250,000	250,000	1,300,000	1,624,711
18	Bridge Inspection & Repair	125,538	220,000	40,000	40,000	40,000	40,000	40,000	420,000	545,538
19	May Creek Bridge Replacement		120,000	710,000	5,000				835,000	835,000
20	Loop Replacement Program	33,807	15,000	15,000	15,000	20,000	20,000	20,000	105,000	138,807
21	Sign Replacement Program	9,358	5,000	5,000	5,000	7,500	7,500	7,500	37,500	46,858
22	Pole Program	44,200	20,000	20,000	20,000	25,000	25,000	25,000	135,000	179,200
23	Sound Transit HOV Direct Access	58,967	5,000						5,000	63,967
24	Traffic Safety Program	145,351	20,000	20,000	20,000	40,000	40,000	40,000	180,000	325,351
25	Traffic Efficiency Program	361,589	101,500	55,000	50,000	30,000	30,000	30,000	296,500	658,089
26	CBD Bike & Ped. Connections	74,956	50,000	50,000	50,000	50,000	50,000	50,000	300,000	374,956
27	Arterial Rehab. Prog.	388,916	240,000	205,000	340,000	230,000	180,000	180,000	1,375,000	1,763,916
28	Duvall Ave NE	1,381,419	2,474,800	447,000					2,921,800	4,303,219
29	RR Crossing Safety Prog.	5,182	5,000	5,000	10,000			10,000	30,000	35,182
30	TDM Program	118,805	64,200	64,200	64,200	64,200	64,200	64,200	385,200	504,005
31	Trans Concurrency	40,047	10,000	40,000	10,000	10,000	30,000	10,000	110,000	150,047
32	Missing Links Program	56,886	30,000	30,000	30,000	30,000	30,000	30,000	180,000	236,886
33	GIS Needs Assessment	36,682	35,000	20,000	20,000	20,000	20,000	20,000	135,000	171,682
34	Grady Wy Corridor Study	20,619	35,000	100,500	52,500	230,000	1,810,000	1,020,000	3,248,000	3,268,619
35	Bicycle Route Dev. Program	34,342	20,000	18,000	18,000	110,000	80,000	80,000	326,000	360,342
36	Lake Wash. Bv-Park to Coulon Pk	317,418	84,500	141,600					226,100	543,518
37	School Zone Sign Upgrades		100,000	100,000	100,000				300,000	300,000
38	Environmental Monitoring	184,838	75,000	50,000	30,000	30,000	30,000	30,000	245,000	429,838
39	Trans-Valley & Soos Creek Corr.	6,886	5,000	5,000					10,000	16,886
40	WSDOT Coordination Program	24,137	15,000	10,000	10,000	10,000	10,000	10,000	65,000	89,137
41	1% for the Arts	33,278	60,000	30,000	30,000	50,000	30,000	30,000	230,000	263,278
42	Arterial HOV Program	127,354	10,000						10,000	137,354
43	Park-Sunset Corridor	26,277	50,000	390,000					440,000	466,277
44	Lind Av - SW 16th-SW43rd	5,000	5,000			1,914,000	626,000		2,545,000	2,550,000
45	SR 169 HOV - 140th to SR900	2,015,391	1,755,400	2,080,000	2,500,000				6,335,400	8,350,791
46	Benson Rd - S 26th to Main	222,963	2,500						2,500	225,463
47	Sunset/Duvall Intersection	909,561	33,300						33,300	942,861
48	Logan Av Concrete Panel Repair					460,000			460,000	460,000
49	Carr/Mill Signal	2,000	3,000	5,000	10,000	340,000	400,000	10,000	768,000	770,000
50	Houser Wy S - Main to Burnett					810,000			810,000	810,000
51	Lake Wash. Bv Silp Plane	637,600	2,400						2,400	640,000
52	Monster Road Bridge	671,934	27,000						27,000	698,934
53	Duvall Ave NE - King County	810,174	3,189,190	524,000					3,693,190	4,503,364
	<b>Total Sources</b>	<b>17,653,646</b>	<b>35,916,990</b>	<b>43,222,200</b>	<b>6,963,100</b>	<b>62,966,100</b>	<b>38,724,100</b>	<b>14,832,100</b>	<b>161,624,690</b>	<b>179,278,136</b>

Total Project Costs

06/03/2004

### Street Network

- South Lake Washington Roadway Improvements (TIP #~~1012~~)
- Rainier Avenue – SW 4<sup>th</sup> Place to SW 7<sup>th</sup> Street (TIP #~~1611~~)
- Grady Way – Main Avenue to West City Limits (TIP #~~3534~~)
- Lind Avenue S.W. – S.W. 16<sup>th</sup> Street to S.W. 43<sup>rd</sup> Street (TIP #~~4544~~)
- Duvall Ave N.E. – Sunset Boulevard to Renton City Limits (TIP #28)
- Mill Avenue South / Carr Road (TIP #~~4849~~)
- Strander Boulevard – SR-181 to Oakesdale Avenue S.W. (TIP #3)
- Sunset Boulevard/Duvall Avenue NE (TIP #~~2947~~)
- ~~Benson Road—South 26<sup>th</sup> Street to South 31<sup>st</sup> Street (TIP #46)~~
- N.E. 3<sup>rd</sup>/N.E. 4<sup>th</sup> Corridor Improvements (TIP # ~~89~~)
- Rainier Avenue Corridor Study/Improvements (TIP #~~76~~)
- Lake Washington Blvd. – Park Avenue North to Coulon Park (TIP #~~3736~~)
- Park Avenue North/Sunset Boulevard – North 6<sup>th</sup> to Duvall Avenue N.E. (TIP #~~4443~~)
- ~~S.W. 7<sup>th</sup> Street/Lind Avenue S.W. (TIP #55)~~
- South Renton Neighborhood Improvements (#~~1213~~)
- N.E. 4<sup>th</sup>/Hoquiam Avenue N.E. (TIP #~~1516~~)

~~Also included are expenditures for study of the SR-169 Corridor (TIP project #11).~~

Included in the Six-Year TIP is the Arterial Circulation Program (TIP #~~1817~~), which will provide funding for further development of multi-modal improvements on Renton's arterials to support the Transportation Plan and comply with clean air legislation. Also included are expenditures for project development studies (TIP #~~1415~~) for development of future TIP projects and grant applications for currently proposed and future TIP projects.

### Transit

- Transit Program: facilities to support regional transit service, local transit service improvements; development of park and ride lots, transit amenities (TIP #~~85~~)
- Renton Urban Shuttle (RUSH) Program: operation of the shuttle bus service within Renton. (TIP #~~54~~)
- ~~Transit Priority Signal System: development and implementation of traffic signal programming to give priority to transit vehicles. (TIP #49)~~

Also, the HOV Chapter improvements identified below will be designed to enhance transit service.

### HOV

- SR-167 / S.W. 27<sup>th</sup> Street HOV (TIP #2)
- Sound Transit HOV Direct Access (TIP #23)
- SR-169 HOV – Sunset Blvd. to east City Limits (TIP #~~445~~)

It should be noted that the expenditure shown for Sound Transit HOV Direct Access (TIP #23) is for coordination with the State and Sound Transit direct access interchange improvements.

Included in the Six-Year TIP is the Arterial HOV Program (TIP #~~4342~~), which will provide funding for further development of Renton HOV improvements identified previously in the HOV Plan (Figure 3-1), to examine additional routes and corridors for HOV facilities in Renton, and for coordination with direct access HOV projects.

### **Non-Motorized**

- Benson Road Improvements – South 26<sup>th</sup> to Main Avenue (TIP #~~17~~46)
- CBD Bike and Pedestrian Connections (TIP #26)

Also included in the proposed Six-Year TIP is the Walkway Program (TIP #~~9~~10), which will provide funding for sidewalk and handicap curb ramp needs identified in the City of Renton *Comprehensive Citywide Walkway Program*. The Bicycle Route Development Program (TIP #~~36~~35) will upgrade existing bicycle routes, construct missing links in the bicycle route system, and develop, evaluate, prioritize future bicycle facilities. These projects are in addition to bicycle and pedestrian improvements, anticipated as part of arterial, HOV and transit projects.

Implementation of the non-motorized element falls into two categories - walkways/sidewalk and bike facilities. Each of these components are described below.

Walkways/Sidewalks Implementation. The implementation procedures for the City's comprehensive walkway/sidewalk program is detailed in the City of Renton *Comprehensive Citywide Walkway Study*. This report identifies the sidewalk and curb ramp needs within the City. Specific improvements will be prioritized and will respond to the needs of school children, the aged and persons with disabilities, and will support increased use of transit.

Bike Facilities Implementation. Bicycle facilities include lanes along roadways and signed bicycle routes. Current funding is provided for the construction of segments of the Lake Washington Loop Trail.

Bicycle route designation and signing along City roadways is provided on an as-needed basis by the Transportation Systems Division of the Planning/Building/Public Works Department. Project prioritization is determined by the Transportation Systems Division in coordination with the Community Services Department.

Funding for bicycle signing is provided through the capital improvement programs and the General Fund operating budgets of the Transportation Systems Division. Signing specifically identified as part of transportation projects will be funded through the Six-Year Transportation Improvement Program (TIP).

Trails Implementation. Many of the planned pedestrian/bicycle facilities in the Long Range Parks, Recreation, Open Space and Trails Plan, administered by the Community Services Department, would be valuable components of the transportation system, and, therefore, are coordinated with the Transportation Plan. The Long Range, Parks, Recreation, Open Space and Trails Plan contains the recommended six-year trails development program. Only projects that are specifically identified as transportation facilities will be included in the Six-Year Transportation Improvement Program (TIP).

### **TDM/CTR**

- Transportation Demand Management Program: implement Commute Trip Reduction Act requirements, other TDM programs (TIP #~~34~~30)

### **Funding Assessment**

A 20-year transportation program has been established having an estimated cost of \$134 million. This program was the basis for determining an annual funding level of \$6.7 million. Assuming this annual funding level can be maintained over the 20-year period (2002-2022), it is reasonably certain that the 20-year transportation program can be implemented. Annual reassessment of transportation needs, continuing



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ATTACHMENT 'A'

to aggressively pursue grant funding, and/or continuation of the strong rate of growth in Renton, which will generate higher developer mitigation revenue, will be needed over the intervening years in order to assume the 2022 transportation program can be achieved.

The City of Renton's proposed ~~2005-2010~~2006-2011 Six-Year TIP includes ~~56-53~~ individual projects and programs, with a total estimated cost of \$179.~~45-28~~ million. Of this total cost, approximately ~~\$164.2~~161.6 million is to be expended over the ~~2005-2010~~2006-2011 six-year period. (It should be noted that for several projects and programs, expenditures over the six-year period are shown, not the total project or program cost.) The difference of about ~~\$45-18~~ million represents expenditures prior to year ~~2005~~2006.

The projected revenues over the six-year period, based on the established \$6.7 million annual funding, will total \$40.2 million. The TIP identified expenditures of ~~\$164.2~~161.6 million is about ~~\$124-121~~ million more than the projected revenues. Of this ~~\$124-121~~ million, approximately ~~\$64-61~~ million represents the amount of participation anticipated by the State, Sound Transit, King County, neighboring jurisdictions, and private sector contributions on joint projects. As previously discussed, transportation improvement expenditures of other jurisdictions have not been included when establishing the \$6.7 million annual funding level. Therefore, the Six-Year TIP expenditures exceed projected revenues by \$60 million.

In order for projects to be eligible for projected funding, they must be, by law, included in the Six-Year Transportation Improvement Program (TIP). Because it is not possible to know which projects will qualify for funding, the Six-Year TIP includes a cross-section of projects to provide a list of projects that will be eligible for funding from the various revenue sources, when and if, such funds become available. The result is a Six-Year TIP which has expenditures exceeding projected revenues.

The challenge for the future will be to secure enough funding for the City of Renton, Cities of Tukwila and Kent, King County, Sound Transit, and the state to implement the improvements to their respective facilities included in the Transportation Plan. However, several strategies for acquiring needed funding are evident at this time. They include:

- ◆ Establish interjurisdictional funding mechanisms, such as payment of mitigation fees to address impacts of growth within adjacent jurisdictions that affect the City of Renton.
- ◆ Update transportation priorities annually and incorporate in the Six-Year Transportation Improvement Program.
- ◆ Continue to work more aggressively with adjacent cities, King County, Washington State Department of Transportation and other agencies to fund their respective improvements in the Transportation Plan, i.e., through joint projects.
- ◆ Continue to work with regional agencies to encourage them to find and fund regional solutions for regional transportation problems.

### **Mitigation Process**

There are new laws and regulations that have tremendous impacts on land use, the need for new or different kinds of transportation projects and programs, and costs and funding of transportation projects. Examples are the Wetlands Management Ordinance, Surface Water Management Ordinance, the Clean Air Act, Commute Trip Reduction Act, Endangered Species Act, and the Growth Management Act. As a result, a transportation mitigation policy and process has been developed as part of the transportation plan. This